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June 4, 1999

Assistant Commissioner of Patents
Washington, D.C. 20231

Re: New U.S. Patent Application of
Kevin Boyle and Marty Maistre
***Credit Instrument and System with Automated
Payment of Club, Merchant, and Service Provider Fees***
Our File No. 47004.000040

Dear Sir:

Transmitted herewith for filing in the United States Patent and Trademark Office is the
patent application of:

Inventor: Kevin Boyle and Marty Maistre

For: **Credit Instrument and System with Automated
Payment of Club, Merchant, and Service Provider Fees**

Docket No.: 47004.000040

Including: 20 Pages of Specification
4 Pages of Claims (numbered 1-25)
1 Page Abstract
8 Sheets of Informal Drawings (Figs. 1 - 10)
Unexecuted Joint Declaration for Patent Application

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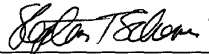
June 4, 1999

Page 2

Applicants respectfully request that the filing date of June 4, 1999 be granted to this application.

Respectfully submitted,

HUNTON & WILLIAMS



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STS/ceg
Attachments

UNITED STATES PATENT APPLICATION

OF

KEVIN BOYLE AND MARTY MAISTRE

FOR

**CREDIT INSTRUMENT AND SYSTEM WITH AUTOMATED
PAYMENT OF CLUB, MERCHANT, AND SERVICE
PROVIDER FEES**

CREDIT INSTRUMENT AND SYSTEM WITH AUTOMATED PAYMENT OF CLUB, MERCHANT AND SERVICE PROVIDER FEES

5

FIELD OF THE INVENTION

The present invention relates generally to a system and method for providing credit instruments whereby the credit processing system is preconfigured with a series of participating clubs, merchants, or service providers such that an applicant can provide for automated payment of dues and fees without having to engage in a separate transaction with each club, merchant or service provider.

BACKGROUND OF THE INVENTION

It is increasingly common that consumers pay for many of their expenses using credit cards, bankcards or like instruments rather than using cash or checks. Consumers do this because they find it more convenient than sending cash or checks. Using credit cards in this fashion is also desirable because the consumer can borrow using his/her credit card when personal funds are low, and also because an itemized list of payments is generated each month.

Some clubs, merchants or service providers may require fixed payments on a periodic basis, such as weekly, monthly, semi-annually, and so forth. In the case of a club, such as a health club, a consumer may be required to send dues each month. Using a credit card, the consumer may send in a payment slip each month with the credit card number, expiration date and a signature authorizing the charge to the consumer's credit card. Or the consumer may call the club's place of business to give like information

verbally over the phone. Or the consumer may contact the club to give like information using a home computer accessing the Internet.

In each case the consumer is relieved of the inconvenience of sending cash,
5 checks or the equivalent. Yet in each case the consumer still must initiate the transaction each month by mail, telephone or computer. For the customer associated with a number of clubs requiring periodic payments, this may involve a significant number of transactions for the consumer to initiate each week or month. Moreover, since payment due dates may differ for each club, the consumer cannot make the overall task more
10 efficient by doing all the payments at once unless he/she is willing to pay some bills early or some bills late. Thus, this approach to paying bills using a credit instrument has significant shortcomings for the consumer.

From the perspective of the club, processing credit card information is advantageous since processing tends to be easier than for checks. However, there are
15 still significant shortfalls. The club must await the submission of payment from the consumer for each cycle. Sometimes consumers will be late in contacting the club to submit their credit card information. Sometimes communication lapses will result in incorrect information being submitted to the club, such as when the consumer fills in the wrong credit card information or a customer service representative misunderstands
20 information given over the telephone.

And even when no such difficulties arise, the club still must initiate the transaction with the card provider by submitting a separate charge for each consumer on each payment cycle. For a club having hundreds or thousands of members, this may entail the initiation of hundreds or thousands of charges at different times. This is a

significant disadvantage because of the time and costs imposed on the club. Additionally, charges may be imposed on the club and/or the card provider when an interchange processor is contacted for each transaction initiated by the club.

5 Additionally, there may be communications difficulties in contacting a card provider bank or interchange to submit the charge, such as when a direct-dial connection fails or an Internet or like computer network connection fails.

Sometimes a consumer will give a club permission to bill his/her credit card on an ongoing basis so that the consumer does not have to initiate payment each cycle.

10 While this may lighten the burden on the consumer somewhat, it does not eliminate the burden on the club, which still must submit a charge to the consumer's credit card each cycle. Moreover, the consumer must still engage in an initial transaction with each club, merchant or service provider, to grant this authorization to bill the consumer's credit card on a periodic basis. For the consumer wishing to give such authorization to multiple

15 clubs, merchants or service providers, a series of separate transactions must be undertaken. This is a significant shortcoming.

Other problems and drawbacks also exist.

SUMMARY OF THE INVENTION

For these and like reasons, what is desired is a system and method of providing a

20 credit card system that is associated with a series of clubs, merchants, service providers or the like so that a fully automated payment of dues or fees can be effectuated with minimal transactions.

Accordingly, it is one object of the present invention to overcome one or more of the aforementioned and other limitations of existing systems and methods for payment of fees or dues using a credit instrument.

5 It is another object of the invention to provide a credit instrument that is pre-associated with a series of clubs, merchants or service providers so that a cardholder can authorize automated payment for multiple business concerns in a single transaction with the card provider.

10 It is another object of the invention to provide such a credit instrument where the information for multiple business concerns is stored at a credit system processor so that the creation of automated payment agreements for a consumer for a plurality of such business concerns is easily effectuated.

15 It is another object of the invention to provide a credit instrument application system where an applicant is solicited to join clubs and set up automated payment agreements at the same time the application is being processed so that a competitive marketing advantage is conferred on the associated business concerns.

20 It is another object of the invention to provide such a credit instrument associated with a series of business concerns such that a competitive advantage is conferred on the associated business concerns because the cardholder is encouraged to maintain the accounts therewith.

 It is another object of the invention to provide such a credit instrument associated with a series of business concerns that provides a competitive advantage for the card provider by maximizing revenue and creating barriers to exit for both the associated business concerns and the cardholders.

To achieve these and other objects of the present invention, and in accordance with the purpose of the invention, as embodied and broadly described, an embodiment of the present invention comprises an apparatus and method for a card that allows a
5 cardholder to set up auto-charge payment of dues and fees to a series of clubs, merchants or service providers. The card also may be used for other transactions that accept credit cards. The system includes a database containing information of the associated clubs, merchants and service providers, so that applicants and cardholders can easily configure auto-charging for multiple business concerns in one sitting. The system may then
10 process auto-charge transactions in an automated fashion without requiring a cardholder to submit payment authorization or the business concern to submit a charge for each periodic payment. Inconvenience and administrative costs to the cardholder and the business concerns are greatly reduced. The system and method provide a competitive advantage to the associated business concerns to secure the initial account and then to
15 retain it. The system and method encourages card loyalty of both the card members and the business concerns to the card provider.

The accompanying drawings are included to provide a further understanding of the invention and are incorporated in and constitute part of this specification, illustrate several embodiments of the invention and, together with the description, serve to explain
20 the principles of the invention. It will become apparent from the drawings and detailed description that other objects, advantages and benefits of the invention also exist.

Additional features and advantages of the invention will be set forth in the description that follows, and in part will be apparent from the description, or may be learned by practice of the invention. The objectives and other advantages of the

invention will be realized and attained by the system and methods, particularly pointed out in the written description and claims hereof as well as the appended drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

5 The purpose and advantages of the present invention will be apparent to those of skill in the art from the following detailed description in conjunction with the appended drawings in which like reference characters are used to indicate like elements, and in which:

10 Figure 1 is a block diagram of the credit card processing system according to an embodiment of the invention, including the network, central server system, user systems, credit card database and various processor systems.

 Figure 2 is a block diagram according to an embodiment of the invention illustrating an exemplary partner and associated clubs, merchants or service providers.

15 Figure 3 is a block diagram according to an embodiment of the invention illustrating data that may be stored by the system for various partners.

 Figure 4 is a block diagram according to an embodiment of the invention illustrating data that may be stored in the system for installations corresponding to an associated partner.

20 Figure 5 is a block diagram according to an embodiment of the invention illustrating data that may be stored in the system for a club, merchant or service provider.

 Figure 6 is a block diagram according to an embodiment of the invention illustrating data that may be stored in the system for auto-charging dues or fees for a club, merchant or service provider.

Figure 7 is a block diagram according to an embodiment of the invention illustrating data that may be stored in the system for a member or cardholder.

Figure 8 is a flowchart illustrating a method, according to an embodiment of the invention, for a card provider to provide an auto-charge feature to cardholders for associated clubs, merchants and service providers.

Figure 9 is a flowchart illustrating a method, according to an embodiment of the invention, for a user of the system to process an application on behalf of an applicant, including the selection of auto-charge options for associated clubs, merchants and service providers.

Figure 10 is a flowchart illustrating a method, according to an embodiment of the invention, for the system to execute batch processing of auto-charge fees or dues for cardholders who have selected the auto-charge option for clubs, merchants or service providers.

DETAILED DESCRIPTION OF THE INVENTION

As discussed in the Summary of the Invention, the present invention is directed to a method and apparatus for a credit instrument that supports auto-charging to clubs, merchants and service providers.

The auto-charge feature of the card can be used to automatically charge dues and fees to a cardholder's account for clubs, merchants, service providers and other business concerns. As can be appreciated by those skill in the art, the inventive concept is well-adapted to setting up auto-charging when there is an ongoing relationship between the cardholder and the business concern, such as a health club, where payments are to be

made each month. For the sake of clarity and brevity of this detailed description, the explanation of the invention shall be discussed in terms of associated “clubs,” although it is to be understood that this also embraces merchants, service providers and other
5 business concerns.

Additionally, the description will refer to “partners.” Partners may be entities that are associated with a number of clubs, such as a university or military branch. A partner may provide data to a card provider of a number of clubs so that applicants (e.g., students or alumni or service members) can easily join up and set up auto-charge
10 arrangements therewith. By “partnering” with the card provider, both the partner and the card provider derive benefits of bringing the plurality of clubs into the system. Of course, those of skill in the art will recognize that the benefits of the system can be derived where there are no partners, i.e., where clubs become participants in the system without an intermediate partner.

15 **Overview of the System**

Figure 1 depicts an overview of the system, according to an embodiment of the present invention, including central server system 100; network 150; user systems 105; credit card database module 110; non-monetary business processor system 115; report processor system 120; application processor system 125; credit bureau data module 130;
20 monetary processor system 135; dues processor system 140; and transaction processor system 145.

Central server system 100 may comprise a server system for receiving applications, maintaining a database, processing transactions and interfacing with user

systems over network 150. Generally, central server system 100 includes hardware and software for supporting system administration, database management, application and transaction processing, report generation, and network-related operations. In one
5 embodiment, control server system 100 may interface with user systems 105 over the Internet or like packet-switched networks. In such an embodiment, central server system 100 may have software to support graphical user interface (GUI) with user systems 105 through browser pages or the like (e.g., incorporating HTML or XML mark-up language) so that users need little or no specialized hardware or software.

10 Central server system 100 may use server hardware running Microsoft NT™ and using Oracle v. 7.3.4 for database operations. Central server system 100 may support network related operations using software such as Weblogic™ v.3.1 for Unix. Software for processing transactions and applications is well known in the art and, for example, may be programmed in high level languages such as C++. Central server system 100
15 may be a secure system employing encryption technology, such as 128 bit SSL (secure sockets layer) encryption, to protect data transmitted over the network. Central server system 100 may also require a user name and password for a party to access the system over network 150. Central server system 100 may support interface with user systems 105 through the application of servlets and/or applets, known to those of skill in the art,
20 for supporting a substantially platform independent interface with users who have “standard” computer hardware and software.

User systems 105 may comprise any system capable of interfacing with server system 100 over network 150. User systems 105 may comprise “standard” computer systems that do not require specialized hardware or software to interface with central

server system 100. User systems 105 may comprise personal computers, microcomputers, minicomputers, portable electronic devices, a computer network or other system operable to send and receive data through network 150. In one
5 embodiment, user systems 105 may comprise a personal computer running Windows NT™ and Microsoft Internet Explorer™ 4.0.

Network 150 may comprise any network that allows communications amongst the components, and may encompass existing or future network technologies, such as the existing “Internet,” “World Wide Web,” Wide Area Network, “Internet Protocol-Next
10 Generation” (Ipng) and like technologies. In one embodiment, network 150 comprises the Internet so that user systems 105 can access central server system 100 as a web site and interface therewith using standard browser pages.

Credit card database module 110 represents the storage media employed to store data for the system. Credit card database module 110 may be one or more physically
15 distinct media, such as hard drives, floppy drives, CD-ROM and other existing or future storage technologies supporting ready access. Credit card database module 110 may store the account data for the system, such as transactions data, partner data (to be discussed further below), installation data (to be discussed further below), club data, auto-charge data, member data and so forth. Generally, this module stores records of
20 member accounts (e.g., for posting charges and payments), records of associated partners and clubs, and records of auto-charge data.

Application processor system 125 is for processing credit card applications for the cards. Application processor 125 may communicate with credit bureau data module 130 for retrieving and evaluating information of an applicant’s credit-worthiness in order

to accept or deny an application. Application processor 125 may process applicant information submitted by an applicant through user system 105 and report results back to central server system 100, which may add the applicant to credit card database module 110 if an applicant is approved.

Report processor system 120 may extract data from the database (e.g., credit card database module 110) for reports to be generated periodically or by request. Report processor system 120 may present such reports as browser or like pages to user systems 105. In one embodiment, report processor 120 comprises Crystal Info™ software as the reporting engine. In one embodiment, report processor system 120 can be accessed over the Internet by users such as partners and/or clubs to retrieve information regarding partner club affiliation, club membership, account status and the like.

Non-monetary business processor system 115 may be a processing module supporting central server system 100 so that users can change certain information stored in credit card database module 110. A “user” generally refers to a party that is authorized to access central server system 100. In one embodiment, where a military branch is a partner, each base or installation may have a user authorized to accept applications and modify system data, such as changing the address of a cardholder stored in credit card database module 110. Generally, the card provider may have a plurality of persons authorized as users. In one embodiment, there is a plurality of levels of authorization for users, such that a card provider user may have access to all data, a partner user may have access only to that data pertaining to that partner, and a cardholder user may have access only to that data pertaining to the cardholder’s account.

Monetary processor system 135 may comprise a module for submitting charges to a cardholder's account, such as charges, payments and adjustments. Monetary processor system 135 may submit a charge request, such as a merchant number, terminal ID, account number, charge amount and current date, to transaction processor system 145. Monetary processor system 135 is generally capable of operating in nominal real time so that charge requests are submitted for processing as they are received. In one embodiment, monetary processor system 135 is capable of processing so-called "on-us" charges submitted directly to the system (e.g., submitted directly to the card provider or bank) and so-called "not-on-us" charges submitted through an interchange (e.g., a Visa™ or MasterCard™ interchange, well known to those of skill in the art). Generally, monetary processor system 135 processes charges other than the auto-charges, such as merchant charges, adjustments, cardholder payments, and the like.

Dues processor system 140 prepares charge requests associated with auto-charge fees or dues. Dues processor system 140 generally processes "on-us" charges so that contacting an interchange is not required. Dues processor 140 will periodically (e.g., daily) determine the auto-charge payments required for cardholders. A set of transactions is prepared for "batch processing" and the transactions may be sent to transaction processor 145 as a group. In one embodiment, dues processor system 140 is also capable of preparing transactions from external files received, for example, from a utility on a daily basis. This function is similar to the auto-charge feature for clubs and the like, except the amount of each transaction may vary based on the data received from the external file. In another embodiment, dues processor system 140 is capable of preparing "special club" transactions, such as processing charges submitted based on a

merchant code set up in the system for the “general’s party” or like special occasion amenable to having charges submitted and processed in a group fashion.

Transaction processor system 145 processes the transactions for the system.

5 Generally, transaction processor receives transaction requests, accesses an account database (see, e.g., credit card database module 110) and determines if the transaction is authorized or declined. Based on the result, the pertinent card member account and merchant account is updated as appropriate. In one embodiment, a transaction request may comprise a merchant number, terminal ID (identifying the terminal submitting the
10 request), account number, charge amount, and current date. Several categories of merchant numbers may be available to identify the merchant and the nature of the transaction request. These categories may include dues billing, dues adjustment, special event, recurring charge (e.g., external file from a utility submitted on a daily basis), payment or other. A transaction request, as described above, may be submitted to
15 transaction processor system 145, which may return a six-digit authorization code, a decline code, a decline and confiscate message or a call bank message. The transaction processor 145 or central server system 100 may post the result to the card member’s account and transfer any payment to a club account (such as a direct deposit transaction).

Partners

20 Figure 2 illustrates the concept of partners for the system. Partner 200 may be a military branch that is associated with a series of clubs such as garden club 205, officer’s club 210, health club 215 and other clubs, merchants or service providers 220. More generally, a partner may comprise a business concern, group or association that itself is

associated with a series of clubs or the like. For example, a partner may be a university or military branch that wishes to have data of its various clubs and the like entered onto the system so that students, alumni, or military personnel can readily join clubs and set up auto-charge payment arrangements. The benefits from such an arrangement to the card provider, partner and clubs are substantial.

As previously noted, the system can operate and provide substantial benefits without intermediate partners. Yet, it can be appreciated that the benefits and efficiencies may be maximized when the card provider has an arrangement with an intermediate partner associated with a number of constituent clubs.

Data in Credit Card Database 110

Figures 3-7 illustrate the types of data that may be stored in credit card database module 110. As those of skill in the art can appreciate, the allocation of the data types is functional and descriptive. Credit card database module 110 may be a fully relational database so that each data type can be associated with other data types as appropriate.

Figure 3 illustrates the partner data that may be stored. In this exemplary embodiment, partner data includes Air Force 300, Army 305, Navy 310, State University 315 and other partners 320. Each represents a partner with whom the card provider is associated.

Figure 4 illustrates the various "installations" in the system. An installation refers to a physical location of a partner that has a plurality of locations. In the military paradigm, an installation may correspond to a base. For example, for a Navy partner, the installations may include Navy Base Norfolk 400, Navy Base Washington D.C. 405,

Navy Base Cecil Field 410, and other partner bases 415. By including installation data, the system can provide the appropriate club data for each base. For example, when a new recruit applies for a card at Navy Base Norfolk 400, the system may provide the appropriate list of clubs. When the new recruit is transferred to Navy Base Washington D.C. 405, the new recruit member data is easily “transferred” or reassigned to the new base without re-entering all of his/her data. Such installation data is also useful to the partner for evaluating billings per installation or club membership per installation.

Figure 5 illustrates the club (or merchant or service provider, etc.) data that may be stored in credit card database module 110. In this exemplary embodiment, for a club there may be partner 500 (identifying the partner the club is associated with), merchant code(s) 505, name 510 (name of the club), type 515 (e.g., identifying whether the entity is a club, merchant, service provider, utility, etc.), address/phone 520, manager name 525 and installation ID 530 (identifying the installation). Regarding merchant code(s) 505, a club may be assigned several merchant codes to cover different types of transactions, such as dues and dues adjustment.

Figure 6 illustrates the auto-charge data that may be stored in credit card database module 110. This data may be stored for a club to provide the various options for the auto-charge feature of the system. This way when a card member decides that he/she would like to automatically pay the officer’s club, the appropriate data for that club is present in the system. In the exemplary embodiment of Figure 6, the auto-charge data comprises description 605 (describing the club and/or nature of the auto-charge), frequency 610 (describing the frequency of payment such as daily, monthly, quarterly, etc.), ID 615 (identifying the club), installation/lump fee 620 (whether the club will

accept installations or requires lump fees), cancellation policy 625 (explaining
cancellation policy of the club), refund policy 630 (explaining the refund policy of the
club), promotional rates 635 (providing promotional rates for, e.g., new members, or
5 differential rate structures depending on rank or other personal characteristics), and
price/fee 640 (price or fee for the club).

Figure 7 illustrates an exemplary embodiment of the data that may be stored in
credit card database module 110 for the cardholders. Cardholder data may comprise
auto-charge data 700, which may further comprise frequency 705, number of payments
10 710, amount 715, and date 717 (provides date of the auto-charge payment, e.g., the 19th
of each month). Auto-charge data 700 may have an entry for each club the cardholder is
paying using the auto-charge feature. Military 720 lists data for a card member in the
military, such as name/address 725, phone 730, status 735 (e.g., retired, active duty or
reserve), rank 740, and agent code 745 (identifies the installation to which the cardholder
15 belongs). The cardholder data may further comprise card number 750, member ID 755
(e.g., may be social security number), merchant codes 760 (identifies
clubs/merchants/service providers that the cardholder is associated with), and other
account data 770. In one embodiment, merchant codes 760 is also stored on the card so
that the card not only supports normal credit card applications and the auto-charge
20 capability, but can also function as a “door pass” that members may use to gain entry or
authorization for clubs.

Graphical User Interfaces for the System

In one embodiment, central server system 100 interfaces with user systems 105 over the Internet or like packet-switched network using a standard GUI interface, such as
5 browser pages accessed over the World Wide Web.

In this embodiment, there is a log in page for an authorized user, who must provide a user name and password. In this embodiment, there is a so-called "home page" which includes options for member lookup (for locating members), application processing (for processing applications), member maintenance (for changing member
10 data, such as an address or installation), batch processing (for batch financial transactions), reports (for preparing reports) and administration (for profiles, maintenance of installations, clubs, and merchants). In this embodiment, there may be an application browser page for submitting an application over the Internet.

Methods of Using the System

15 According to an embodiment of the present invention, a method is provided for a credit card system that is associated with a series of clubs, merchants, service providers or the like so that a fully automated payment of dues or fees can be effectuated. Referring to Figure 8, a card provider reaches an agreement with a partner associated with a plurality of clubs, according to step 1200. The card provider then updates a
20 database to include the partner and plurality of clubs, as in step 1205 (e.g., see Figures 2, 3, 4, 5 and 6). In one embodiment, a card provider reaches such an agreement with a military branch which then provides data describing installations and clubs that could be stored in a database such as credit card database module 110. The card provider and/or

partner solicits applications for the credit instrument and invites the applicant to join various clubs and/or set up auto-charge arrangements, according to step 1210. For example, the new recruit is invited to apply for a card and also to join various clubs such as the Officer's Club and golf club, for which the auto-charge feature may be set up. According to step 1215, auto-charge data is entered into the processing system (e.g., see Figure 7) for each member selecting the auto-charge feature for a club. Based on the auto-charge data entered for the members, the system processes charges automatically, according to step 1220. Charges are posted to the members' accounts, according to step 1225. In one embodiment, steps 1220 and 1225 may be processed as batch transactions, as previously discussed. In one embodiment, steps 1220 and 1225 are performed as "on-us" transactions so that interchange fees are avoided, providing savings to the card provider and/or partner and/or clubs. In step 1230, payment is issued to the partner or clubs. In one embodiment, payment is issued to the partner, such as to a military base, by automated direct deposit. In another embodiment, it may be provided that payment is issued directly to clubs.

According to an embodiment of the present invention, Figure 9 depicts a method for processing an application for a credit card system that is associated with a plurality of clubs and that supports auto-charging. The user logs on to the system, as in step 1305, and the system authenticates the user, as in step 1310. In one embodiment, where the partner is a military branch, each installation or base may have an authorized user for accepting applications on behalf of service personnel. The user submits the applicant's name, address and other general data on behalf of the applicant, as in step 1315. The user requests whether the applicant wants to auto-charge certain clubs, as in step 1320.

The user submits the applicant's auto-charge data, as in step 1325. The application is submitted to the application processor , as in step 1330 (e.g., see Figure 1, application processor system 125). The application decision is returned to the user, as in step 1335.

5 The credit card database is updated to include the applicant if the application is approved, as in step 1340 (e.g., see Figure 1, credit card database module 110; Figure 7).

According to an embodiment of the invention, Figure 10 depicts a method of batch processing auto-charge dues or fees for the system. Referring to Figure 10, the system (e.g., see Figure 1, central server system 100) invokes the batch processing logic
10 (e.g., see Figure 1, dues processor system 140), according to step 1400. The server system builds a list of members at each installation or base, according to step 1405. The server system builds a list of clubs (for which the auto-charge option is enabled) for each member, according to step 1410. Central server system 100 obtains the dues or fees amount for each member, according to step 1415. The server system sends dues files
15 (e.g., a batch of transaction requests) to transaction processor system 145 for authorization (e.g., see Figure 1, transaction processor system 145), according to step 1420. The server system receives the results of the transaction requests, i.e., an authorization number or rejection for the transaction requests, as in step 1425. The server system posts the transactions to the members' accounts, as in step 1430. The
20 server system transfers funds to club accounts, as in step 1435. The server system may then issue reports to partners on authorization failure/success and gross/net charges, as in step 1440.

Other embodiments and uses of this invention will be apparent to those having ordinary skill in the art upon consideration of the specification and practice of the

invention disclosed herein. The specification and examples given should be considered exemplary only, and it is contemplated that the appended claims will cover any other such embodiments or modifications as fall within the true scope of the invention.

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What is claimed is:

1. A credit instrument for allowing a cardholder to automatically charge fees to a club, merchant or service provider, comprising:

5 a credit card capable of charging point of service transactions to be posted on a cardholder's account;

said credit card having encoded information thereon that associates the cardholder with a plurality of clubs, merchants or service providers for which automated charges can be effectuated.

10 2. The credit instrument of claim 1, wherein said encoded information is of an account number that is correlated by a credit card processing system to said plurality.

3. The credit instrument of claim 2, wherein said cardholder's account is automatically updated to reflect said automated charges by said credit card processing system.

15 4. The credit instrument of claim 3, wherein encoded information thereon identifies one or more said plurality for use as an admission pass.

5. A server-based system for processing auto-charges for one or more clubs, merchants or service-providers, comprising:

20 a server adapted to interface with user systems for receiving applications and batch processing of auto-charge transactions;

a monetary processor system for processing point of sale transactions submitted over an interchange;

a dues processor system for processing batch files of auto-charges; and

a database containing information of a plurality of cardholders including information describing charges to be processed automatically for a club, merchant or service-provider.

5 6. The system of claim 5, further comprising a report processor system for generating reports of account activity.

7. The system of claim 5, further comprising a transaction processor for accessing said database to determine if a transaction request is to be authorized.

8. The system of claim 5, wherein said database further contains information
10 identifying a partner that is associated with a plurality of clubs, merchants or service providers.

9. The system of claim 8, wherein said partner is a branch of the military.

10. The system of claim 8, wherein said partner is a university or college.

11. The system of claim 9, wherein said database contains information identifying
15 one or more installations or bases of said partner.

12. The system of claim 9, wherein said database is a fully relational database allowing a cardholder to be transferred from one installation or base to another installation or base.

13. A server-based networked system for processing auto-charges for cardholders
20 associated with one or more clubs, merchants or service-providers, comprising:

a server for receiving applications, processing point of sale transactions and processing auto-charges to clubs, merchants or service providers;

a plurality of user systems for submitting applications; and

a network interfacing said server and said plurality of user systems.

14. The system of claim 13, wherein at least one of said user systems is located at a military base.

5 15. The system of claim 13, wherein at least one of said user systems is located at a university or college.

16. The system of claim 13, said server further comprising a database of cardholders including information of charges to be automatically posted to cardholder accounts and credited to a club, merchant or service provider.

10 17. A method for providing a credit card system that automatically bills cardholders and credits clubs, merchants or service-providers, comprising:

providing a credit card processing system having a database of cardholder account data;

15 including in said database information of a plurality of clubs, merchants or service-providers agreeing to auto-charging of dues or fees;

entering data in said database for an applicant or cardholder of one or more clubs, merchants or service-providers which are to be issued funds automatically.

18. The method of claim 17, wherein said step of entering data includes entry of information describing at least one of the frequency and date of the funds to be issued.

20 19. The method of claim 18, wherein said step of entering data includes entry of information describing the amount of funds to be issued.

20. The method of claim 18, further comprising the step of processing a plurality of transaction requests based on said data.

21. A method of processing a series of transaction requests based on information in a database for a plurality of cardholders which describes a plurality of clubs, merchants or service-providers to be paid automatically, comprising:

5 periodically searching a database to identify a plurality of cardholders who are to be charged a fee or due;

 generating a batch of transaction requests based on said step of searching;

 submitting said batch to a transaction processor;

 updating the accounts of said plurality of cardholders based on results reported by
10 said transaction processor.

22. The method of claim 21, further comprising the step of automatically transferring funds to a club, merchant or service-provider based on said results.

23. The method of claim 21, further comprising the step of automatically transferring funds to a base or installation associated with said plurality of clubs, merchants or
15 service-providers.

24. The method of claim 22, wherein said club, merchant or service-provider is located on a military base or installation.

25. The method of claim 23, wherein said club merchant or service provider is located on a military base or installation.

20

ABSTRACT

An apparatus and methods for a card that allows a cardholder to set up auto-charge payment of dues and fees to a series of clubs, merchants or service providers. The card also may be used for other transactions that accept credit cards. The apparatus includes a database containing information of the associated clubs, merchants and service providers, so that applicants and cardholders can easily configure auto-charging for multiple business concerns in one sitting. The apparatus may process auto-charge transactions in an automated fashion without requiring a cardholder to submit payment authorization or the business concern to submit a charge for each payment. Inconvenience and administrative costs to the cardholder and the business concern are reduced. The system and method provide a competitive advantage to the associated business concerns to secure the initial account and then to maintain it. The system and method encourages card loyalty of both the card members and the business concerns to the card provider.

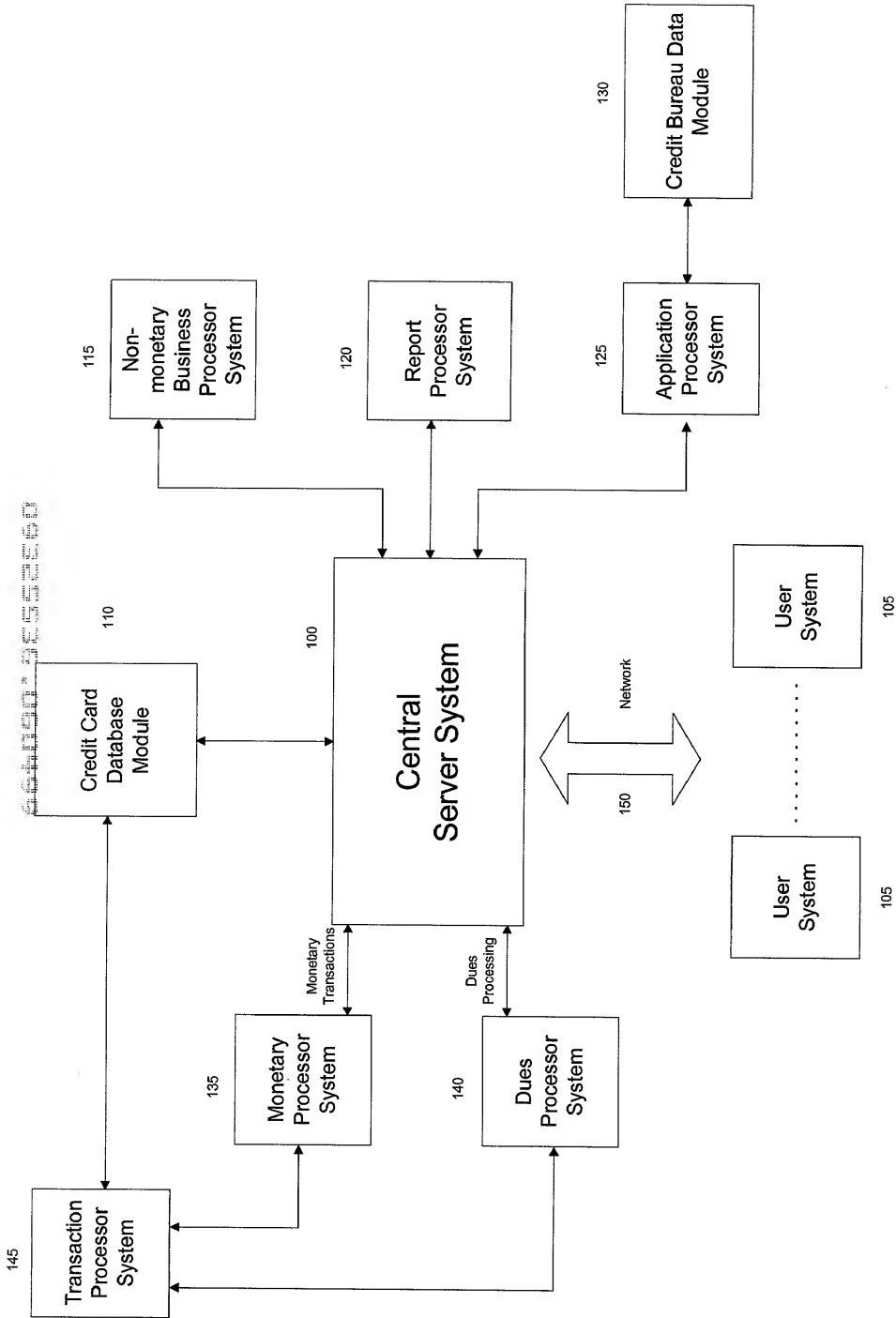


FIG. 1

200

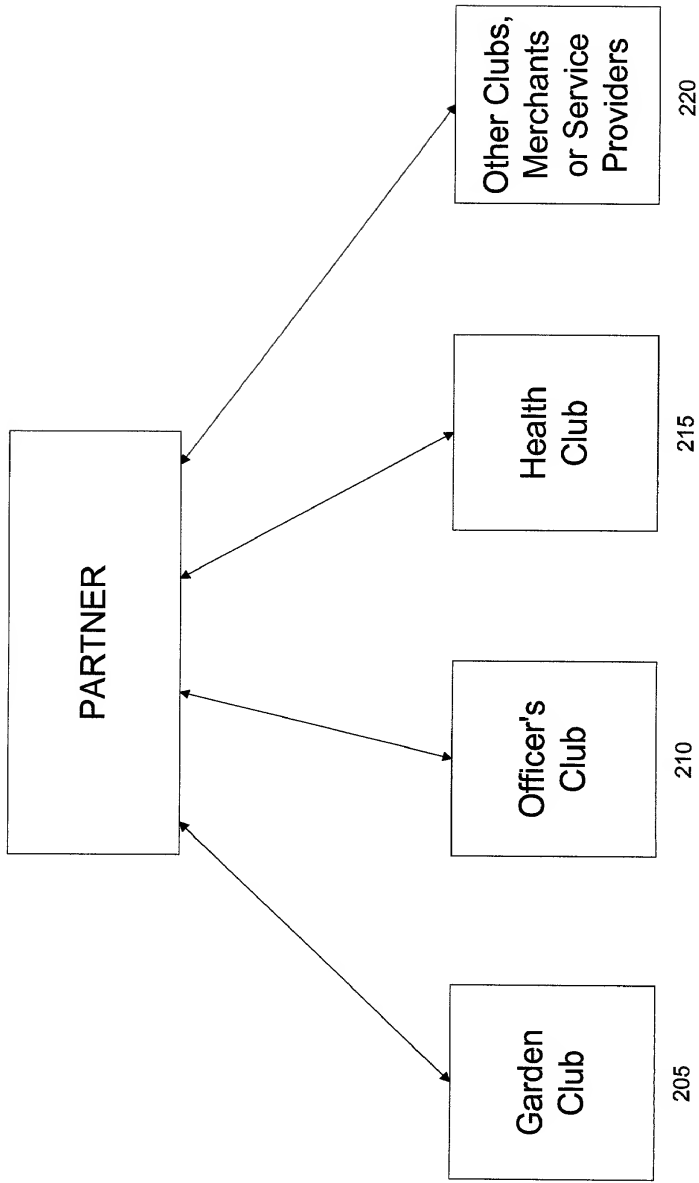


FIG. 2

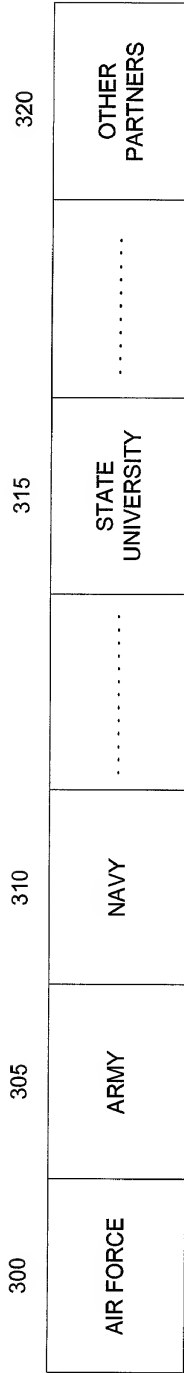


FIG. 3

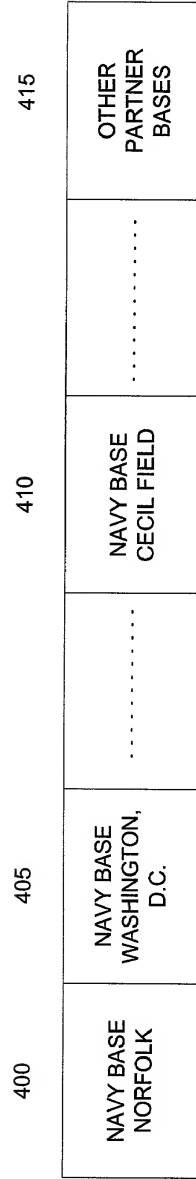


FIG. 4

500	505	510	515	520	525	530
PARTNER	MERCHANT CODES	NAME	TYPE	ADDRESS/ PHONE	MANAGER NAME	INSTALLATION ID

FIG. 5

605	610	615	620	625	630	635	640
DESCRIPTION	FREQUENCY	ID	INSTALLMENT/LUMP FEE	CANCELLATION POLICY	REFUND POLICY	PROMOTIONAL RATES	PRICE/FEE

FIG. 6

700

720

Auto-charge Data				Military				
Frequency	Number of Payments	Amount	Date	Name/ Address	Phone	Status	Rank	Agent Code
705	710	715	717	725	730	735	740	745

Card No.	Member ID	Merchant Codes	Other Account Data
750	755	760	770	

FIG. 7

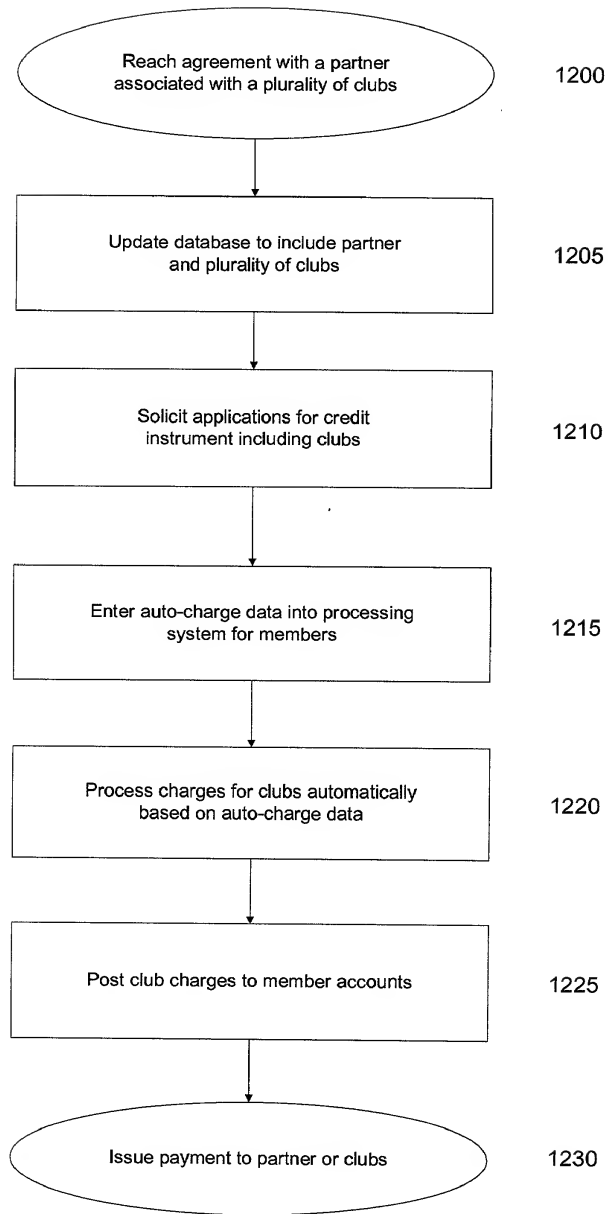


FIG. 8

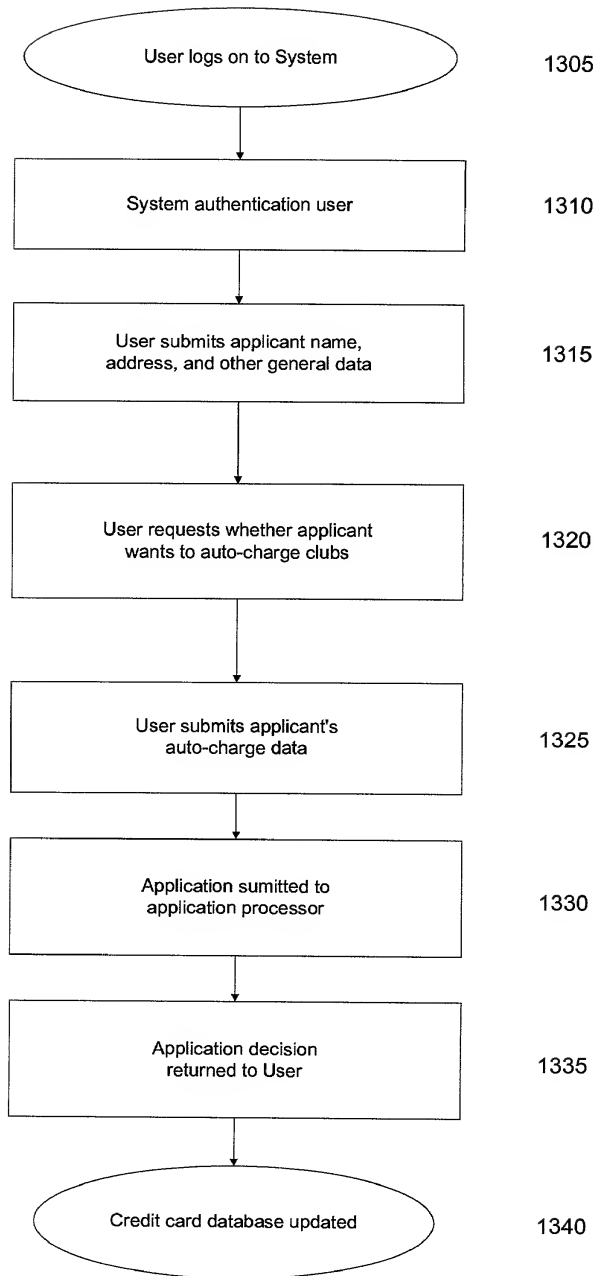


FIG. 9

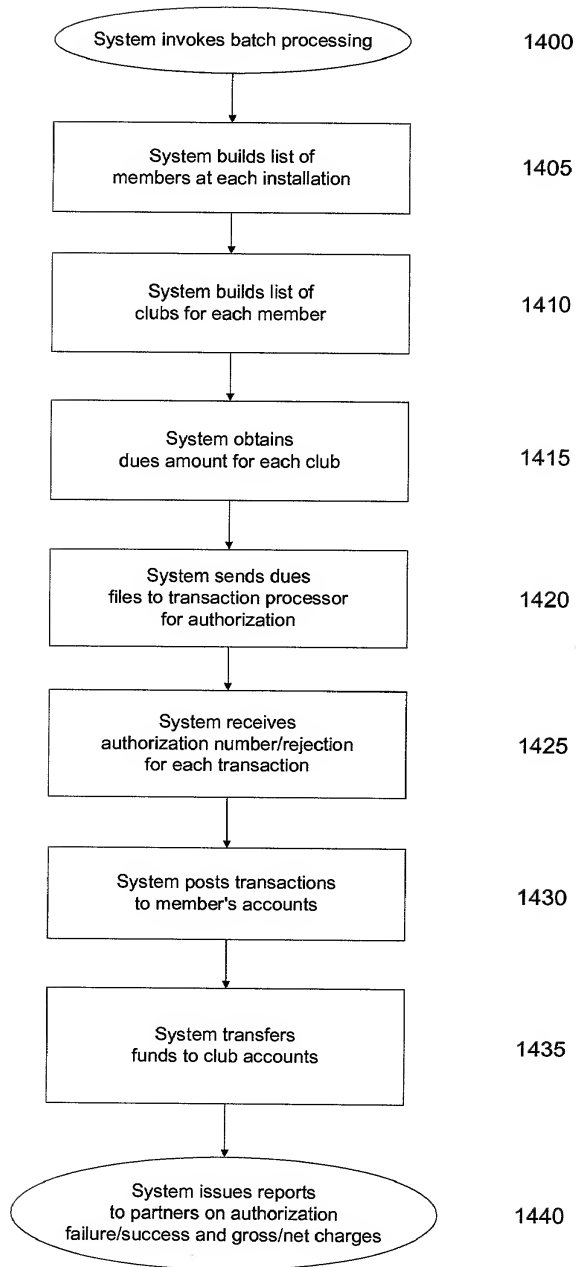


FIG. 10

JOINT DECLARATION FOR PATENT APPLICATION

As the below named inventors, we hereby declare that:

Our residences, post office addresses and citizenship are as stated below next to our names;

We believe that we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled **CREDIT INSTRUMENT AND SYSTEM WITH AUTOMATED PAYMENT OF CLUB, MERCHANT, AND SERVICE PROVIDER FEES**, the specification of which

☒ is attached hereto.

☐ was filed on _____ as Application Serial Number _____ and was amended on _____ (if applicable)

We hereby state that we have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to in this declaration.

We acknowledge the duty to disclose all information known to us to be material to the patentability of this application, as defined in 37 C.F.R. § 1.56.

We acknowledge the duty to disclose to the Office all information known to us to be material to patentability as defined in § 1.56, which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

Prior Foreign Application(s)

We hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application(s) for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Country	Application Number	Date of Filing (day, month, year)	Date of Issue (day, month, year)	Priority Claimed Under 35 U.S.C. 119	
				Yes <input type="checkbox"/>	No <input type="checkbox"/>
				Yes <input type="checkbox"/>	No <input type="checkbox"/>
				Yes <input type="checkbox"/>	No <input type="checkbox"/>
				Yes <input type="checkbox"/>	No <input type="checkbox"/>

Prior United States Provisional Application(s)

I hereby claim the benefit under 37 C.F.R. § 119(e) of any United States provisional application(s) listed below

Application Number	Filing Date

Prior United States Application(s)

We hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, we acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial Number	Date of Filing (day, month, year)	Status - Patented, Pending, Abandoned

And we hereby appoint, both jointly and severally, as our attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith the following attorneys, their registration numbers being listed after their names:

Thomas J. Scott, Jr., Registration No. 27,836; James G. Gatto, Registration No. 32,694; Stanislaus Aksman, Registration No. 28,562; Tyler S. Brown, Registration No. 36,465; Henry C. Su, Registration No. 37,738; Christopher C. Campbell, Registration No. 37,291; Charles F. Hollis, Registration No. 40,650; Brian M. Buroker, Registration No. 39,125; Jonathan D. Link, Registration No. 41,548; Christopher J. Cuneo, Registration No. 42,450; Raphael A. Valencia, Registration No. 43,216; Kevin Duncan, Registration No. 41,495; Kevin J. Dunleavy, Registration No. 32,024; Thomas G. Woolston, Registration No. 40,235, and George Georgellis, Registration No. 43,632; Scott D. Balderston, Registration No. 35,436, and Stephen T. Schreiner, Registration No. 43,097.

All correspondence and telephone communications should be addressed to Hunton & Williams, 1900 K Street, N.W., Washington, D.C. 20006-1109, telephone number (202) 955-1500, which is also the address and telephone number of each of the above listed attorneys.

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature _____ Date _____

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